



## FEATURES

- RoHS compliant
- Toroidal construction
- Up to 4.1A ldc
- Inductance range from 0.5 to 5.0mH
- Small footprint
- UL 94V-0 packaging materials
- Low DC resistance
- Guaranteed 3.0mm creepage and clearance between windings

## PRODUCT OVERVIEW

The 5100 series is a range of through-hole common mode chokes designed to attenuate up to 100MHz common mode noise where line filtering is required, such as high current switching power supplies and telecom applications.

## SELECTION GUIDE

Order Code	Inductance		DC Current	DC Resistance	Leakage Inductance
	Nom. mH	Range mH	Max. A	Max. mΩ	Max. μH
<b>51504C</b>	0.5	0.37-0.68	4.1	27	9
<b>51105C</b>	1.0	0.75-1.39	3.3	38	18
<b>51305C</b>	3.0	2.16-4.02	1.9	97	45
<b>51505C</b>	5.0	3.62-6.73	1.2	197	75

## ABSOLUTE MAXIMUM RATINGS

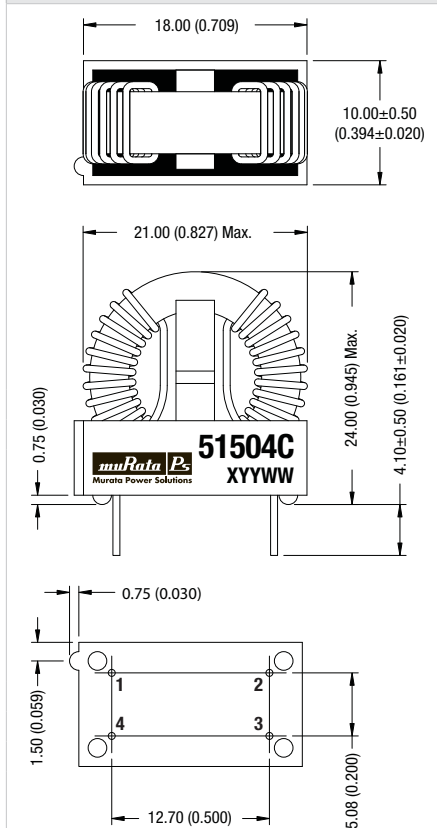
Operating free air temperature range	-40°C to 125°C
Storage temperature range	-40°C to 125°C
Isolation voltage	1500Vrms

## SOLDERING INFORMATION<sup>1</sup>

Peak wave solder temperature	260°C
Pin finish	Tin

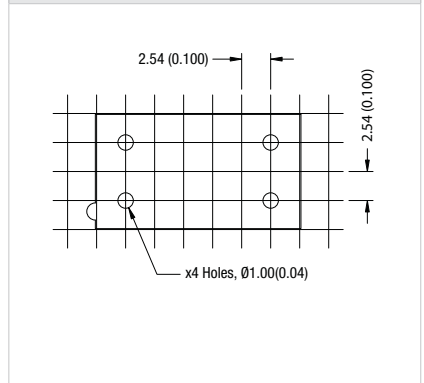
## PACKAGE SPECIFICATIONS

### Mechanical Dimensions

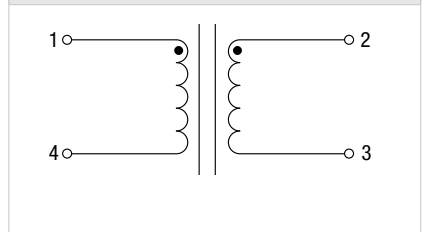


Package weight: 6.0g Typ.  
All dimensions in mm (inches)

### Recommended Footprint Details



### Pin Connections



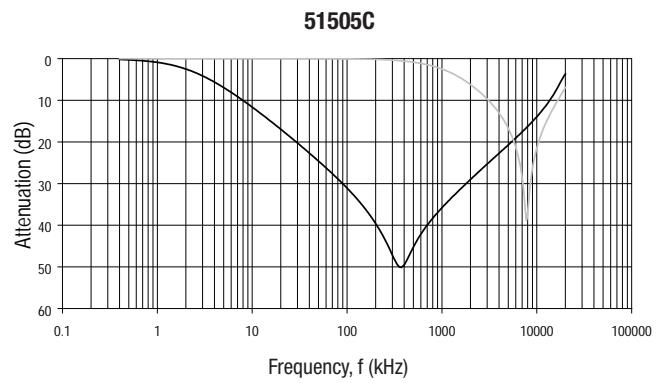
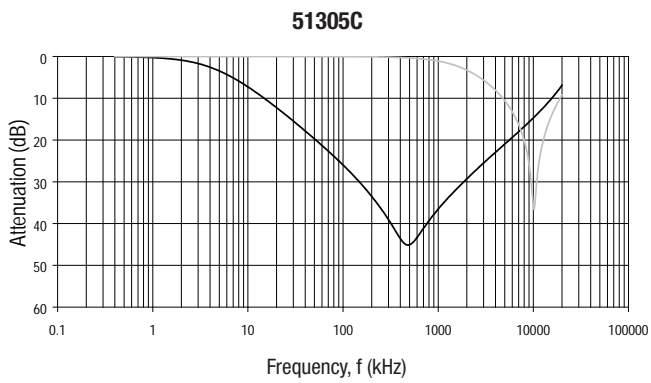
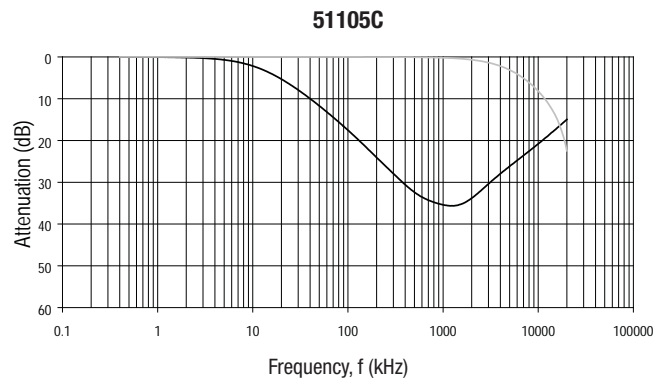
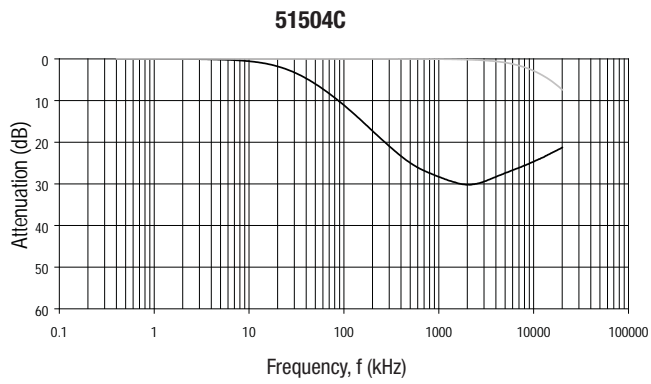
### Packaging

Supplied in trays (60 pieces per tray)

Specifications typical at  $T_a = 25^\circ\text{C}$   
1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



**COMMON AND DIFFERENTIAL MODE ATTENUATION VS FREQUENCY**



— Common Mode    - - - Differential Mode

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